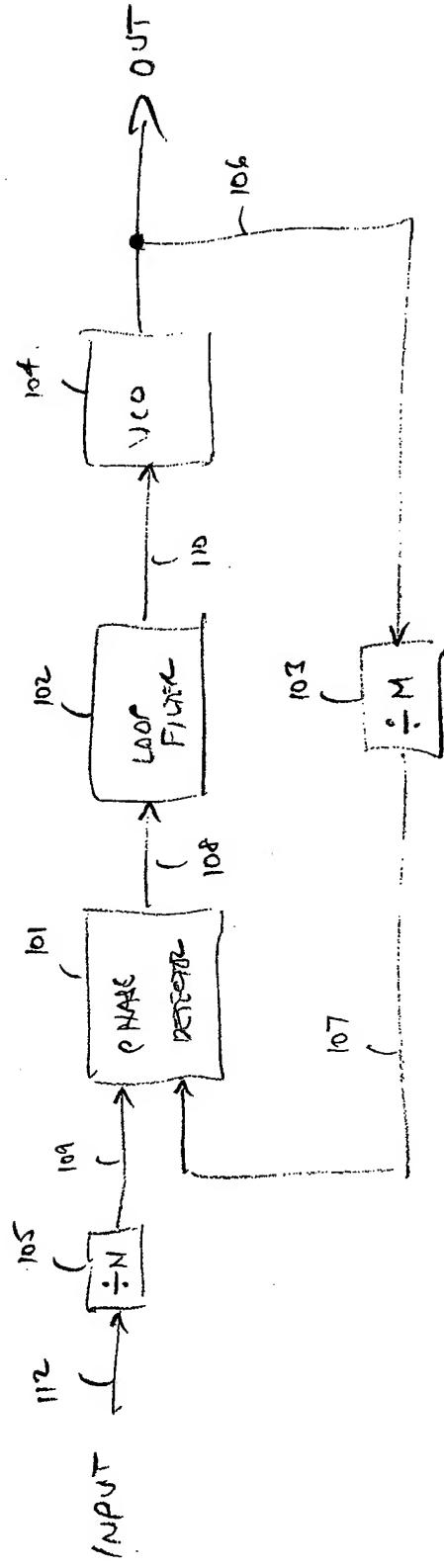


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$$f_{\text{out}} = f_{\text{in}} \frac{M}{N}$$

Fig. 1
(prior art)

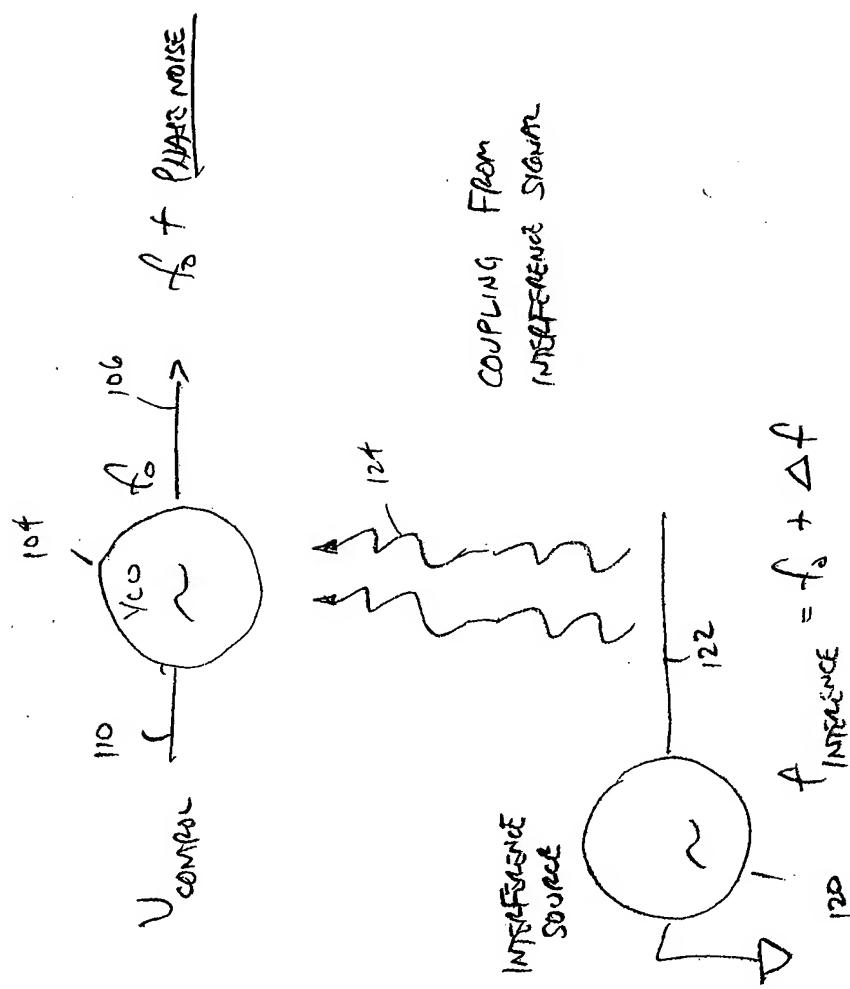


Fig. 2

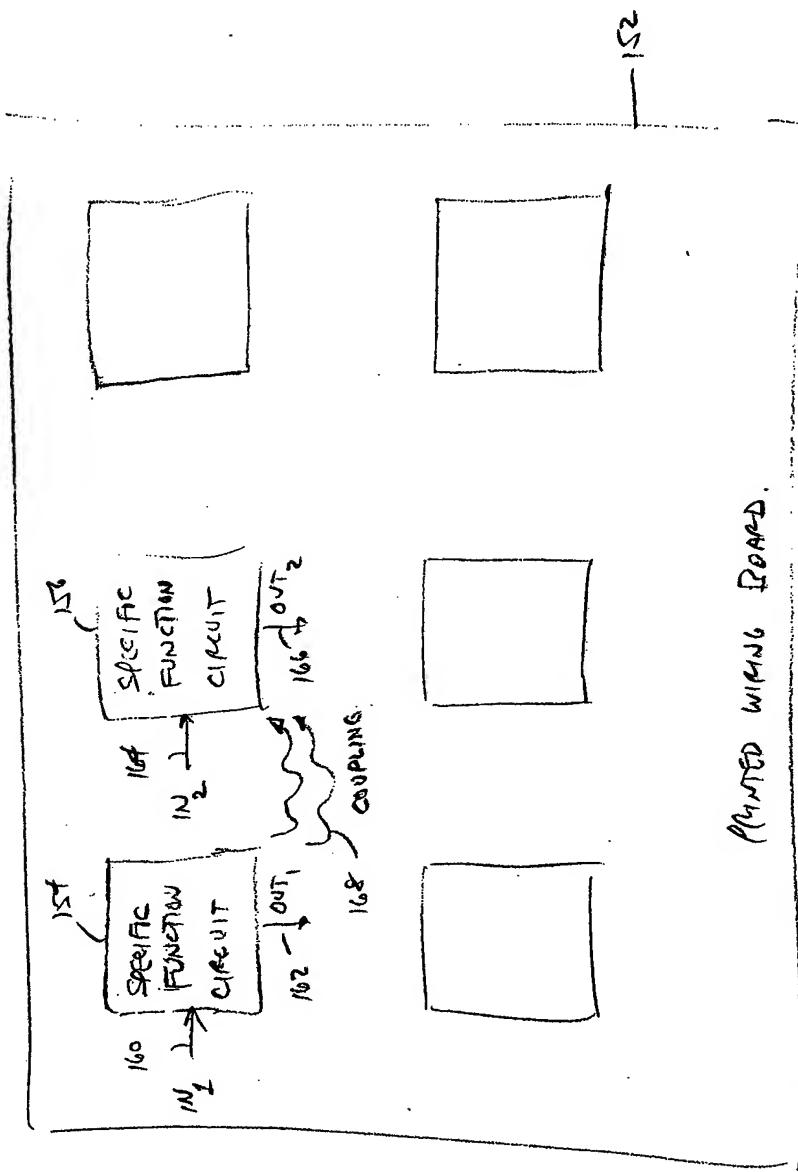
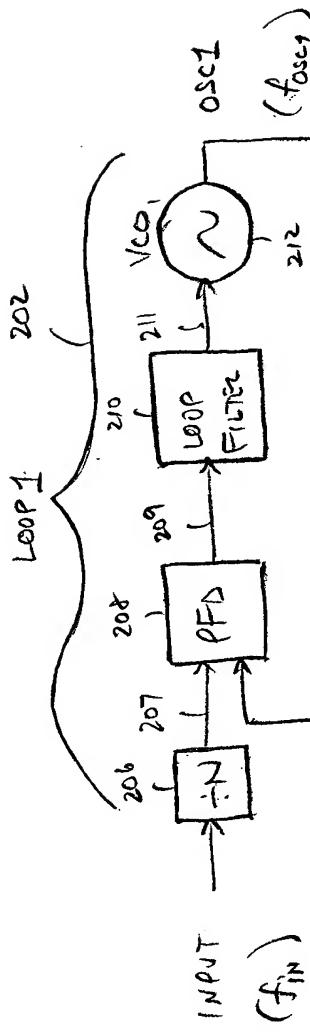


Fig. 7

DUAL PLL ARCHITECTURE

200



200

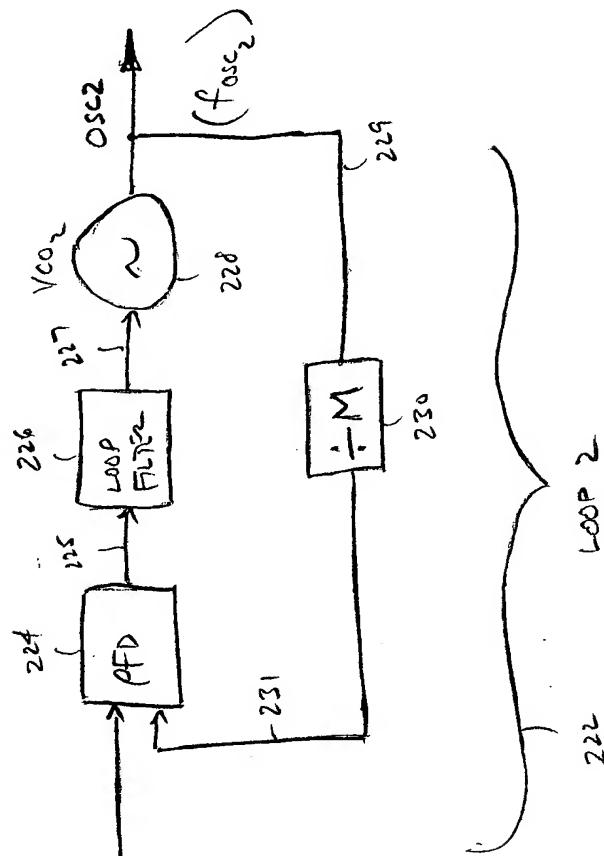
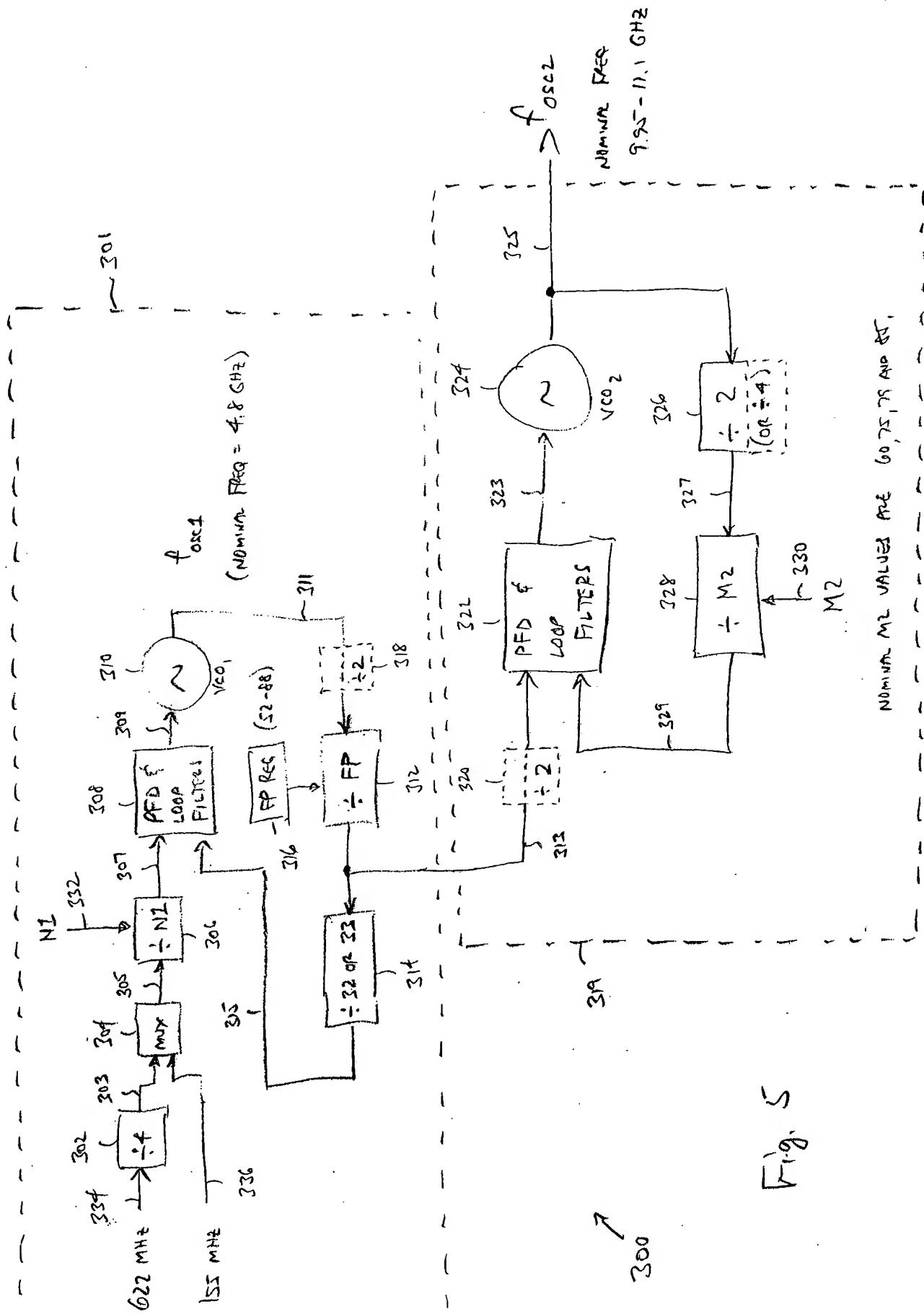


Fig. 4

$$\begin{aligned}
 f_{osc_2} &= f_{osc_1} \cdot \frac{M}{F_P} \\
 &= \left(f_{IN} \cdot \frac{F_P}{N} \right) \frac{M}{F_P} \\
 &= f_{IN} \cdot \frac{M}{N}
 \end{aligned}$$

Nominal M_2 values of 60, 75, 79, and 85



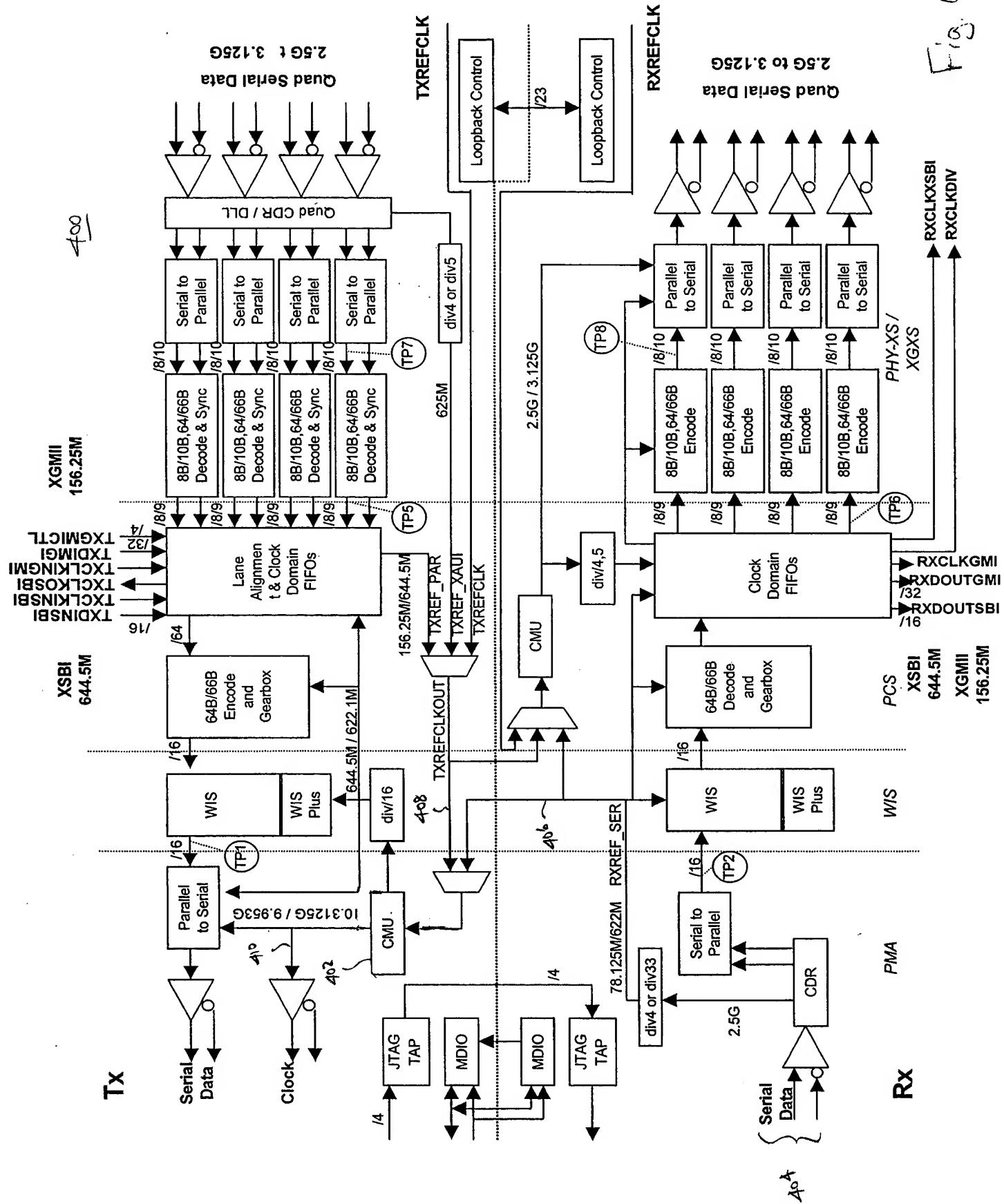


Fig. 6

(FIG. 6A - OPTIC DATA SYSTEM)

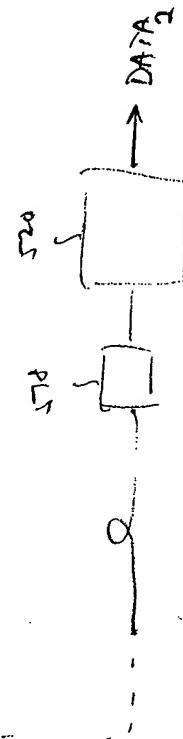
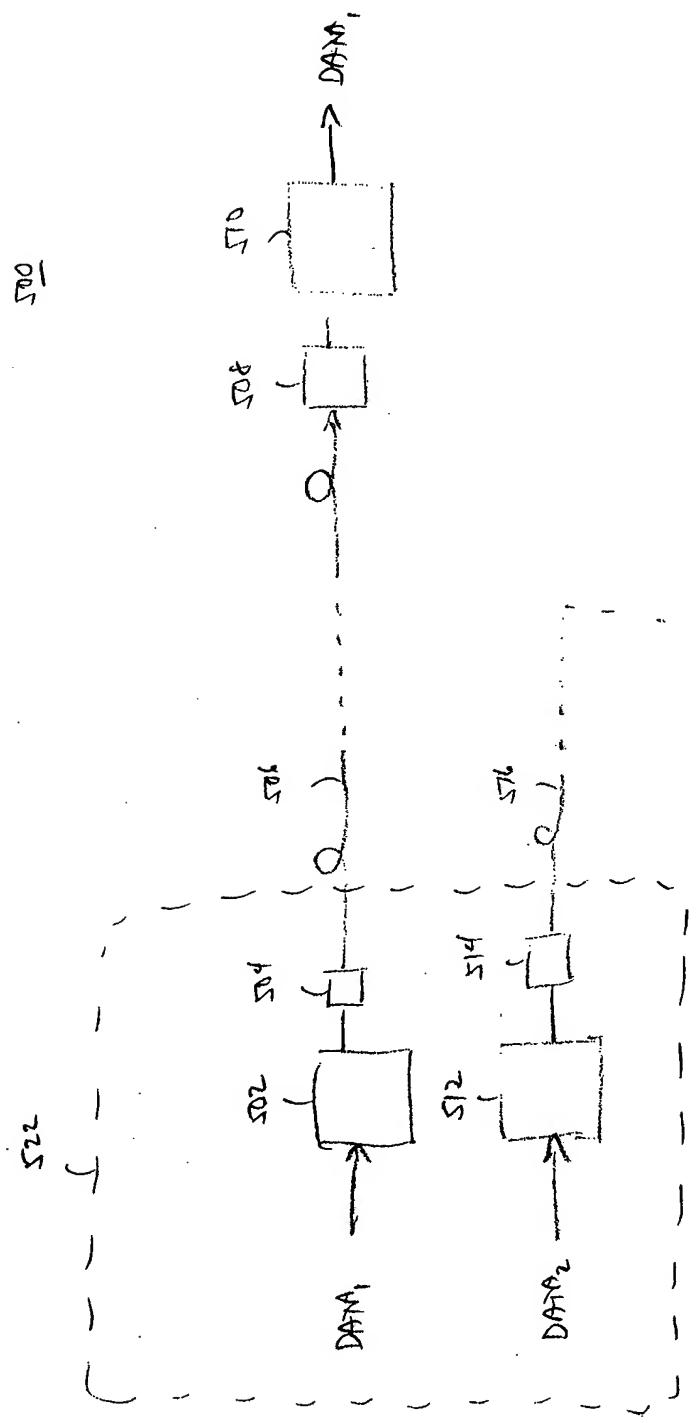


Fig. 7